

DEPARTMENT OF TRANSPORTATION- DISTRICT 7
SPECIAL PROVISION "H" - SIGNALS
7/96

This special provision "H" is to be used as minimum specifications to install, repair and/or maintain Caltrans signals and/or signal appurtenances.

The following items are electrical requirements of the permit:

1. Traffic signal work shall be done in accordance with the State of California Standard Specifications.

2. The permittee shall pay for any temporary wiring or service connections required to keep the existing traffic signal systems in effective operation during modifications.

3. Existing traffic signal systems on State highways shall be kept in normal operation for the benefit of the traveling public during progress of the work. If the traffic signal system shutdown is necessary, shutdown hours shall be limited to short periods between 9:00 AM and 3:00 PM, as directed by the State permit electrical inspector. No shutdowns will be allowed on Fridays or the day before a legal holiday.

4. On all permit work involving installation or revision of the State's lighting, signal or electrical facilities, permittee shall notify the State permit electrical inspector at (213) 620-2030, at least (3) three working days in advance of his intention to begin work.

5. Field wiring shall be as directed by the State permit electrical inspector.

6. The curb and/or berm or any other item of protection on the traffic side of any signal and/or street light facilities shall remain in place until after the facilities have been relocated.

7. The signal and/or street lighting facilities shall be relocated prior to starting the road work in the area.

8. Any turn-on of new signals or the shutdown of existing electrical facilities must be cleared and approved at least (3) three working days in advance with the State permit electrical inspector. No turn-ons will be allowed on Fridays or the day before a legal holiday.

9. In the event of conflict with the existing traffic signal and/or lighting systems, where no electrical work is authorized in the permit, call the State permit electrical inspector at (213) 620-2030.

10. If it is necessary to disturb the traffic signal equipment or if any damage to the equipment is incurred, all work or repairs shall be expeditiously pursued and will be the responsibility of the permittee at no cost to the State.

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11. All repairs shall be made within ten (10) working days after incurring the damage. All damage causing an immediate danger to the public health and safety shall be repaired immediately.

12. Electrical pull boxes shall be plastic lined No. 5 or larger.

13. All installations of controller cabinets shall provide a minimum of two (2) 75mm (3") diameter conduits, placed through the controller foundations and extending into the nearest No.6 pull box.

14. Interconnect cable shall not be spliced.

15. The face of poles shall not be placed closer than 0.6m (2') from any curb face (this includes street light poles).

16. Modification of the existing traffic signal system which involves replacement of poles and/or mast arms, shall also include new signal heads and pedestrian heads.

17. All standards (poles, mast arms, luminaries, signal heads, etc.) near or in a proximity of any high-voltage lines shall meet CAL/OSHA'S Electrical Safety Orders (High Voltage) Article 86, Table 2 - California Administrative Code, Title 8, Chapter 4, Subchapter 5, Electrical Safety Orders- Rules for Overhead Electrical Line Construction. (Section 86-1.02- Regulations and Code, of the Standard Specifications.)

18. All traffic loop detector installations should have a minimum depth of 90mm (3.5") for existing pavement and 125mm (5") for new pavement. Type II wire with hot-melt rubber sealant shall be used. Type E- 1.8m (6') diameter loops shall be used.

19. All conduits shall be installed at 750mm (30") below the traveled way area and 450mm (18") beneath sidewalk grade.

20. All materials (poles, signal heads, safety lights) shall have Manufacturer's Certificate of Compliance conforming to State Standard Specification.

21. When curb returns are to be constructed or replaced, wheelchair ramps shall be provided.

22. Any electrical pull boxes within the limits of the new or reconstructed wheelchair ramp shall be relocated to an area outside of the wheelchair ramp, as directed by State permit inspector.